ABSTRACT

A biomolecules detection method, where the biomolecules to be detected are coupled to a first substance which is part of a nucleic acid replicating device, the formed biomolecule/substance complexes being bound to the solid phase bound binding molecule specific to the particular biomolecule, and, if called for, the non-bound biomolecule/substance complexes being removed by washing, the bound biomolecule/substance complexes being incubated with high molecular weight nucleic acid molecules and mononucleotides of different species, of which at least the mononucleotides of one species are fitted with detectable markings, further being incubated with a second substance complementing the first substance coupled to the biomolecules into a functional, replicating device for high molecular weight nucleic acids that binds the high molecular weight nucleic acids, and with integration of marked mononucleotides generating replicas of the high molecular weight nucleic acid molecules that do not dissociate off it, where called for the dissolved high molecular weight nucleic acid molecules and mononucleotides which do not dissociate being removed by washing, the biomolecules to be detected being ascertained from the evidence of the marked replicas.